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of the  
Amended Claims  
for  
Divisional of 09/359,260

16. (Amended) A culture medium component identified by a [the] method [of claim  
1] comprising the steps of:

measuring first indicia of a property of a plurality of first culture media which each  
contains a respective first test compound from within a first test library;

determining a relationship between at least one parameter of the first test compound  
and the measured first indicia of the property of the plurality of first culture media;

determining a test requirement relating to the measured first indicia; and

identifying a second test library containing a plurality of second test compounds as  
components of a plurality of second culture media which is based on the relationship are  
expected to provide second indicia of the property which meets the test requirement.

55. (Amended) A culture media component identified by a [the] method [of claim  
41] comprising the steps of:

defining a first test library by representing each of a plurality of groups of  
compound isomers from within a compound space as a respective candidate compound;

measuring first indicia of a property of a plurality of first culture media which each  
contains a respective first test compound from within the first test library;

determining a relationship between at least one parameter of the first test  
compounds and the measured first indicia of the property of the plurality of first culture  
media;

determining a test requirement relating to the measured first indicia; and

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identifying a plurality of second test compounds from within the compound space as components of a plurality of second culture media which based on the relationship are expected to provide second indicia of the property which meets the test requirement.

113. (Amended) A culture medium component identified by a [the] method [of claim 96] comprising the steps of:

culturing a plurality of first cells cultured in a plurality of first culture media each containing a respective first compound from a first test library;

measuring first indicia of a property of the plurality of first culture media in the plurality of first cell cultures;

determining a relationship between the measured first indicia of the property and at least one parameter of the plurality of first culture media;

determining a test requirement relating to the measured first indicia; and  
culturing a plurality of second cell cultures in a plurality of second culture media each containing a respective second test compound from a second test library;

wherein based on the relationship the plurality of second culture media containing the second test compounds are predicted to give indicia of the property that satisfy the test requirement.